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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/596,993	09/06/2006	Rainer Muller	A8396PCT-UT	4258
	7590 09/15/201 R PARADIES, PH.D.	0	EXAMINER	
FOWLER WHI	TE BOGGS P.A.		BLACK, MELISSA ANN	
501 E KENNEDY BLVD, STE. 1700 TAMPA, FL 33602			ART UNIT	PAPER NUMBER
,			3612	
			MAIL DATE	DELIVERY MODE
			09/15/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/596,993	MULLER ET AL.			
		Examiner	Art Unit			
		MELISSA A. BLACK	3612			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Pasnonsive to communication(s) filed on 20 //	una 2010				
•	Responsive to communication(s) filed on <u>29 June 2010</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.					
3)□	<i>/</i> —					
<i>ا</i> ل	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	closed in accordance with the practice under z	x parte quayre, 1999 O.D. 11, 40	0.0.210.			
Dispositi	on of Claims					
4)🛛	☑ Claim(s) <u>1-4,12 and 19-32</u> is/are pending in the application.					
,	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
	6)⊠ Claim(s) <u>1-4,12 and 19-32</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/or	r election requirement.				
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Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
10)🛛	10)⊠ The drawing(s) filed on <u>28 May 2009</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
	a) All b) Some * c) None of:					
(۵	1. ☐ Certified copies of the priority documents have been received.					
	_					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
	e of References Cited (PTO-892)	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

Application/Control Number: 10/596,993 Page 2

Art Unit: 3612

#### **DETAILED ACTION**

1. This office action is in response to Amendments and Remarks filed on June 29, 2010.

Claims 1-4, 12 and 19-32 are currently pending in the application and rejected as set forth below.

### Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the attachment region in order to attach the insulation structure to the vehicle with fasteners of claim 1 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. The fasteners are not shown or how the insulation would attach.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Application/Control Number: 10/596,993 Page 3

Art Unit: 3612

# Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

3. Claims 1-4, 12 and 19-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Pat # 6,565,040 to Fay et al in view of US Pat # 3,567,162 to Lea and further in view of applicants admitted prior art (Paragraph [0003-0004]).

Re Claim 1, Fay et al discloses an insulation structure for the internal insulation of a vehicle, comprising an insulation package (20), implemented using an insulation, and a film (26) positioned next to external skin (28), wherein the insulation package (20) is constructed using distinct insulation regions (See Figures 1-3), which are implemented using a first insulation (24) whose insulation material is burn-through safe, and a second insulation (22) whose insulation material is burn-through unsafe, these insulation regions being positioned along a finite series and laid next to one another up to a final insulation region (See Figures 1-3), whose insulation material is exchanged in alternating sequence, wherein the insulation regions (20) are contoured to the contour of the external skin (28), and wherein the insulation package (20) is enveloped by the film (26) providing internal support to the insulation package and maintaining the shape of the insulation package. (Please see arguments below) Re Claim 2, Fay et al discloses the insulation package (20) is implemented homogeneously using a second insulation (22), whose insulation material is burn-through unsafe, in which a plurality of burn-through safe barrier layers (24) are integrated wherein the insulation regions are contoured to the contour of the external skin, and wherein the insulation package (20) is enveloped by the film (26) providing internal support to the insulation package (20) and maintaining the shape of the insulation

package (Please see arguments below).. RE Claim 4, Fay et al discloses a second insulation region, which is implemented using the burn-through unsafe insulation material (22) of the second insulation, is laid next to each of a first and a third insulation region (see figure 3), which are equipped with the burn-through safe insulation material of the first insulation (24), and following the third and each further insulation region, which are equipped with the burn-through safe insulation material of the first insulation (24), a further insulation region is positioned, which is equipped with the burn-through unsafe insulation material of the second insulation (see figure 3). Re claim 12, Fay et al discloses wherein the plurality of burn-through safe barrier layers (24) are implemented using a material of high fire resistance, which is implemented as sufficiently resistant or insensitive to occurring fire or both, because of which propagation of the fire, which would flame against a surface region of the barrier layer in this situation, is prevented. Re Claims 34 and 35, Fay discloses that the insulation package is completely enveloped by the film (26, column 2, lines 51-53).

RE Claim 1, Fay et al fails to show the insulation package (20) is positioned inside an intermediate space between internal paneling and the external skin (28) of the vehicle.

Lea teaches the use of an insulation package (10) between an internal paneling (24) and an external skin (18) of the vehicle (see figure 1).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the internal paneling as taught by Lea on the device of Fay in order to protect the insulation package from damage during everyday wear and tear.

Further Re claim 1, Fay et al further discloses that the film encapsulates the insulation but fails to disclose that the ends form an attachment region in order to attach the insulation structure to the vehicle with fasteners.

Applicants admitted prior art discloses that conventional insulation systems comprises reinforcements, which are attached to the ends of the envelope film in order to thus attach a (therefore complete) insulation package to the structure surfaces of a vehicle with the aid of fasteners (paragraph[0003]).

It would have been obvious at the time the invention was made to use the attachment areas as taught by applicant admitted prior art on the device of Fay et al in order to attach the insulation to the vehicle.

Re Claim 3, Fay et al, as modified fails to disclose wherein a first insulation region and an insulation region terminating the series are implemented using the insulation material of the first insulation.

It would have been obvious to one with ordinary skill in the art at the time the invention was made to start and finish the insulation package with the same first insulation for it is a mere rearrangements of known parts and requires little to no skill in the art.

Re Claim 19, Fay et al discloses an insulation structure for the internal insulation of a vehicle subject to accidental exposure of the vehicle to a fire external to the vehicle, the insulation structure comprising an insulation package with an external skin of the vehicle, and the insulation package comprises: at least one barrier layer (24); at least one insulation region (22); and a film providing an external surface of the insulation package, wherein the at least one insulation region (22) is not capable of preventing burn-through of the fire, and the at least one

barrier layer (24) is capable of preventing burn-through of the fire, and the at least one barrier layer (24) is positioned such that the insulation package is made burn through safe wherein the at least one barrier layer and the at least one insulation region (20) are contoured to the contour of the external skin, and wherein the insulation package is enveloped by the film (26), providing internal support to the insulation package (20) and maintaining the shape of the insulation package (20). Re claim 20, Fay et al discloses as wherein each of the at least one barrier layer is comprised of at least one burn-through safe (24). Re Claim 21, Fay et al discloses at least one barrier layer is integrated in the at least one insulation region (see figures). Re Claim 22, Fay et al discloses two barriers layers (24). Re Claim 23, Fay et al discloses wherein at least one insulation region (22) is disposed between the to barrier layers (24). Re claim 24, Fay et al discloses that the barrier layers lead without interruption through the at least one insulation region and up to a peripheral edge of at least one insulation region (see Abstract). Re Claim 25, Fay et al discloses the use of vertical course of the plurality of barrier layers (24) is delimited by two inner vertically diametrically opposed and horizontally positioned boundary faces of at least two insulation regions (22) (see abstract). Re Claim 26, Fay et al disclose that the barrier layers (24) lead close to or press against two outer boundary faces of the at least one insulation region (22), the two outer boundary faces being horizontally diametrically opposing and vertically positioned. Re Claim 29, Fay et al disclose that the insulation package (20) is shaped to a curvature of the external skin (28) (see figures 1-3). Claims 30-32 Fay et al discloses the film and the at least one barrier layer is of a fire resistant material or fireproof fibrous material (see Columns 3-4), and the material is of a ceramic, a carbon, a silicate or combination thereof

(column 4, lines 20-25), and wherein the film is completely enveloped by the film (column 3 line 4).

Re Claim 19, Fay et al fails to disclose the insulation package is positioned inside an intermediate space between internal paneling and the external skin of the vehicle.

Lea teaches the use of an insulation package (10) between an internal paneling (24) and an external skin (18) of the vehicle (see figure 1).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the internal paneling as taught by Lea on the device of Fay in order to protect the insulation package from damage during everyday wear and tear.

Further Re Claim 19, Fay et al further discloses that the film encapsulates the insulation but fails to disclose that the ends form an attachment region in order to attach the insulation structure to the vehicle with fasteners.

Applicants admitted prior art discloses that conventional insulation systems comprises reinforcements, which are attached to the ends of the envelope film in order to thus attach a (therefore complete) insulation package to the structure surfaces of a vehicle with the aid of fasteners (paragraph[0003]).

It would have been obvious at the time the invention was made to use the attachment areas as taught by applicant admitted prior art on the device of Fay et al in order to attach the insulation to the vehicle.

Re Claims 27 and 28, Fay et al fails to disclose that the insulation package is implemented as straight or zigzagged, or sinusoidal or cosinusoidal.

Lea teaches that the insulation package is implemented as straight or zigzagged, or sinusoidal or cosinusoidal (see Figure 1).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to made the package implemented as straight or zigzagged, or sinusoidal or cosinusoidal as taught by Lea on the device of Fay et al in order to thicken the insulation layer in between the external and inner panel furthermore it is a mere design choice.

# Response to Arguments

Applicant's arguments with respect to claims 1 and 19 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELISSA A. BLACK whose telephone number is (571)272-4737. The examiner can normally be reached on M-F 7:00-3:30 ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Dayoan can be reached on (571) 272-6659. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Melissa A Black/

Examiner, Art Unit 3612

/GLENN DAYOAN/

Supervisory Patent Examiner, Art Unit 3612